Notice of Allowability	Application No.	Applicant(s)	
	10/767,058	IWASHITA ET AL.	
	Examiner	Art Unit	
	Paul Ip	2837	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to the amendment filed on 2/17/2006.			
2. The allowed claim(s) is/are <u>1,3-10 and 12-15</u> .			
3. The drawings filed on 30 January 2004 are accepted by the Examiner.			
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Rursey (PCT Rule 17.2(a)) 			
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (dentifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 10/13/05, 21/21/05. 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal Pa 6. Interview Summary (Paper No./Mail Date 8), Examiner's Amendm 8. Examiner's Stateme 9. Other	(PTO-413), e nent/Comment nt of Reasons for Allo Paul Ip	·
		Primary Examiner AU 2837	

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

Applicant's amendment filed on 2/17/2006 has been carefully considered in view of the specification and the drawings with respect to the references of the record. Claims 1, 3-10, and 12-15 are drafted in terms of means plus function. The claims are interpreted in light of the specification. The references of the record fail to teach or suggest the means as recited in claims 1, 7, 10, 12, and 14 with respect to the following functions:

wherein the correction data are predetermined by performing a learning control based on position deviations for predetermined periods in repeatedly driving a driven member in a predetermined region by the servomotor.

wherein the correction data for the predetermined time period from reversal of the position command are predetermined based on an output from an inverse function of an open-loop transfer function for generating the torque command from the velocity command when a model of friction acting on a controlled object is inputted.

wherein the correction data are predetermined using learning control based on position deviations for predetermined periods in repeatedly driving a driven member in a predetermined region by the servomotor.

wherein the correction data are predetermined using learning control, A servemeter driving controller according to claim 11, wherein the correction data are being determined by performing the learning control based on position deviations for predetermined periods obtained in repeatedly driving a driven member in a predetermined region by the servemeter to obtain a torque command, and by subtracting a second-order differentiated value of the position command from the torque command obtained by the learning control.

where in the correction data are predetermined for the predetermined time period from time of reversal of the position command, and said correction means corrects the torque command based on the correction data for the predetermined time period from the reversal of the position command detected by said detecting means.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Ip whose telephone number is (571)-272-1941. The examiner can normally be reached on Monday to Friday from 6:30 am to 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula Bradley can be reached on (571)-272-2833. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Ip

Primary Examiner
Art Unit 2837